



Course Syllabus

1	Course title	Introduction to Prosthetics and Orthotics Practical Skills II	
2	Course number	1803183	
3	Credit hours	0,1	0,1
	Contact hours (theory, practical)	0,4	
4	Prerequisites/corequisites	Successful completion of 1833180	
5	Program title	Bachelor of Science Degree In Orthotics and Prosthetics	
6	Program code	3	
7	Awarding institution	The University of Jordan	
8	School	Rehabilitation Sciences	
9	Department	Orthotics and Prosthetics	
10	Course level	1st year	
11	Year of study and semester (s)	1st year 2nd semester	
12	Other department (s) involved in teaching the course	Bachelor of Science Degree	
13	Main teaching language	NA	
14	Delivery method	<input checked="" type="checkbox"/> Face to face learning <input type="checkbox"/> Blended <input type="checkbox"/> Fully online	
15	Online platforms(s)	<input checked="" type="checkbox"/> Moodle <input checked="" type="checkbox"/> Microsoft Teams <input type="checkbox"/> Skype <input type="checkbox"/> Zoom <input type="checkbox"/> Others.....	
16	Issuing/Revision Date		

17 Course Coordinator:

Name: Reem Massarweh

Contact hours: Monday 11-12 am

Office number:520

Phone number:5355000/23264

Email: r.massarweh@ju.edu.jo

**18 Other instructors:**

Name: Mrs. Areej Obidaat

Office number:

Phone number:

Email:

Contact hours:

19 Course Description:

As stated in the approved study plan.

This course elaborates on the skills that students have learnt in Prosthetics and Orthotics Practical Skills I course. Practically, students will learn how to reflect the theoretical knowledge they have gained through other courses (biomechanics and anatomy) into their skills in building a prosthetic or orthotic device. In addition, building students' skills in critical thinking, critiquing their work, decision making, analysing and evidence-based practice will take place in this course.



20 Course aims and outcomes:

A- Aims:

To know the anatomical land marks of lower and upper limbs.
 To know how to conduct clinical and screening tests used in lower limb, upper limb, spine assessment.
 To learn about the structure of plaster of Paris and how to deal with it.
 To acquire the different techniques of casting with plaster of Paris
 To acquire the basic skills of using surforms and other plaster rectification tools
 To understand and acquire the skill of bandaging techniques for lower limb amputation
 To understand the principle of weight distribution and how to apply it to negative and positive plaster casts

B- Students Learning Outcomes (SLOs):

Upon successful completion of this course, students will be able to:

SLOs SLOs of the course	SLO (1)	SLO (2)	SLO (3)	SLO (4)
1 Determine the classification used for upper extremity orthoses	X	X	X	X
2 Communicate efficiently and professionally with patients and other healthcare staff. [communication skills]	X	X	X	
3 Apply the skills of managing health practice (i.e. prosthetics and orthotics) in different environments and for different patients. [managing professional practices]	X	X	X	
4 Recognize normal and pathological human gait pattern, kinematics, kinetics, the dynamics and muscular control of the limbs, and back during the walking gait cycle	X	X	X	
5 Identify the disorders, diseases and injuries which affect the normal function of lower and upper limbs	X	X	X	X

that can be treated/managed by prostheses				
Show commitment to and interest in learning, continuing education, and teamwork; and to acquire research skills, analytical skills, interpretation skills, and logical and mathematical skills, and to show critical thinking and problem solving abilities	X	X	X	

21. Topic Outline and Schedule:

Week	Lecture	Topic	Student Learning Outcome	Learning Methods (Face to Face/Blended/ Fully Online)	Platform	Synchronous / Asynchronous Lecturing	Evaluation Methods	Resources
1	1.1	Joints and Major Body landmarks		FF				
2	2.1	Exam 1: Joints and Major Body landmarks Introduction to POP, Foot measurement		FF			Written exam (out of 10)	

		t and casting. Principles of AFO casting using plaster rolls Back-slab for Ankle joint						
	2.2							
	2.3							
Week	Lecture	Topic	Student Learning Outcome	Learning Methods (Face to Face/Blended/ Fully Online)	Platform	Synchronous / Asynchronous Lecturing	Evaluation Methods	Resources
3	3.1	Exam 2: POP wrapping					AFO and foot casting (out of 20) based on marking criteria	
	3.2							
	3.3							
4	4.1	Introduction to ROM and Goniometry Range of motion measurement for upper limb (major joints) Shoulder					No marks during the lab	
	4.2							
	4.3							

5	5.1	Range of motion measurement for upper limb (major joints) Elbow, radio-ulna and wrist joints					No marks during the lab	
	5.2							
	5.3							
6	6.1	Range of motion measurement for lower limb (major joints) hip, knee and ankle					No marks during the lab	
	6.2							
	6.3							
7	7.1	Manual muscle testing (Upper limb)					No marks during the lab	
	7.2							
	7.3							
8	8.1	Manual muscle testing (lower limb)					No marks during the lab	
	8.2							

	8.3							
9	9.1	Exam 3: ROM and MMT					(Out of 20) Based on marking criteria	
	9.2							
	9.3							
10	10.1	Special lower limb tests: Thomas test Knee stability tests LLD tests						
	10.2							
	10.3							
Week	Lecture	Topic	Student Learning Outcome	Learning Methods (Face to Face/Blended/ Fully Online)	Platform	Synchronous / Asynchronous Lecturing	Evaluation Methods	Resources
11	11.1	Bandaging techniques						
	11.2							
	11.3							
12	12.1	Plaster moulding						
	12.2							
	12.3							
13	13.1	Wrapping AFO						
	13.2							

	13.3							
14	14.1	Theoretical final exam					50%	
	14.2							
	14.3							

22 Evaluation Methods:

Opportunities to demonstrate achievement of the SLOs are provided through the following assessment methods and requirements:

Evaluation Activity	Mark	Topic(s)	SLOs	Period (Week)	Platform
Project 1	10%	Landmarks		Week 2	
Project 2	20%	AFO casting		Week4	
Project 3	20%	ROM, MMT		Week 10	
Final	50%	Final		Week 13	

23 Course Requirements

(e.g: students should have a computer, internet connection, webcam, account on a specific software/platform...etc):

- Gloves
- Face shield
- Face Mask
- Lab coat
- Coppia (indelible) pencil
- Retractable knife
- Blind scissors
- Tailor measuring tape
- Marker pen
- Goniometer



24 Course Policies:

A- Attendance policies: An absence of more than 15% of all the number of classes, which is equivalent of (2) classes.

B- Absences from exams and submitting assignments on time: The instructor will not do any make-up exams.

C- Health and safety procedures: Students are expected to use any heavy tools or equipment that might impose health and safety issues during this course.

Students should work safely, including being able to select appropriate hazard control and risk management, reduction or elimination techniques in a safe manner in accordance with health and safety legislation.

D- Honesty policy regarding cheating, plagiarism, misbehavior: Students are expected to do work required for assignments on their own.

E- Grading policy: Grading for this course will be determined based upon the accumulation of points for variety of assignments and exams.

F- Available university services that support achievement in the course:

25 References:

A- Required book(s), assigned reading and audio-visuals:
Introduction and safety manual.

B- Recommended books, materials, and media:

26 Additional information:



Name of Course Coordinator: -R W.Massarweh-----Signature: ----RM-----	
--- Date: ---20/2/24-----	
Head of Curriculum Committee/Department: ----Dr. Amneh Alshawabka	Signature: ---AS-----

Head of Department: ----Dr. Bashar Qaroot-----	Signature: -----BQ-----
Head of Curriculum Committee/Faculty: -----	Signature: -----
-	
Dean: -----	Signature: -----